## **TRANSFORMATIONS OF QUADRATIC FUNCTIONS – Day 2**

## Graph the following functions on your calculator, and describe the change.

1)	$y_1 = x^2$ $y_2 = (x + 3)^2$	2) $y_1 = x^2$ $y_2 = (x - 3)^2$
	How does the graph of $y = x^2$ change?	How does the graph of $y = x^2$ change?

## In the general equation $y = a(x - c)^2 + d...$



## 3) Fill in the table below.

Equation	Description of the change in $y = x^2$
$y = x^2 + 4$	
	Right 3 units
	Reflected across the x-axis, Up 1 unit
$y = -x^2 - 2$	
	Stretched by a factor 4, Left 6 units
$y = 2(x - 5)^2 + 7$	
	Compressed by a factor $\frac{1}{3}$
$y = -(x + n)^2 - m$	

